Line-of-Sight Anti-Tank (LOSAT)

MISSION

Provide highly lethal, accurate missile fire, effective against heavy armor systems and field fortifications at ranges exceeding tank main gun range, thus reducing the light infantry force lethality shortfall against heavy armor.

DESCRIPTION AND SPECIFICATIONS

The Line-of-Sight Anti-Tank (LOSAT) weapon system is an integral component of the Army Vision. LOSAT consists of four hypervelocity Kinetic-Energy Missiles (KEM), and a Second Generation Forward-Looking Infrared (FLIR)/TV acquisition sensor, mounted on an air-mobile High Mobility Multipurpose Wheeled Vehicle (HMMWV) chassis. Key LOSAT advantages include the following:

- KEM overmatch lethality, which defeats all anticipated future armored-combat vehicles and hardened high-value targets, including bunkers and reinforced urban structures;
- Deployability, including UH-60L sling load and C-130 air drop; and
- Compatibility with the early-entry forces.

LOSAT also provides increased survivability and countermeasure effectiveness. LOSAT will operate to the maximum range of direct-fire combat engagements, providing dramatically increased rates of fire and enhanced performance under day and night, adverse weather, and obscured battlefield conditions.

KEM
Weight: 177 lb
Length: 112 in
Diameter: 6.4 in
Range: Greater than the TOW Missile
Max velocity: > 1500 meters/sec

FIRE UNIT
Crew: 3
Combat weight: 11,630 lb

FOREIGN COUNTERPART

No known foreign counterpart

FOREIGN MILITARY SALES

None

PROGRAM STATUS

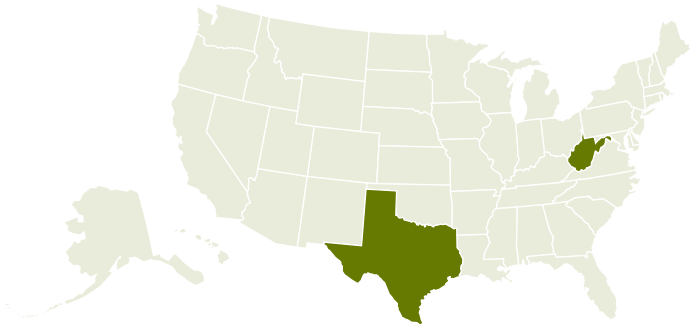
- Restructured program accelerates production start by two years.
- Completed initial design requirements: allocation to fire unit and missile/launch pod performance requirements documents.
- Completed inertial measurement unit (IMU) performance verification ground tests.
- Completed the preliminary design review for the missile/launch pod and fire unit hardware and software designs.
- Completed two early soldier evaluations of the fire unit control and display layouts and functionality.

PROJECTED ACTIVITIES

- Conduct two risk-reduction tests to verify fire unit missile launch effects on HMMWV chassis and IMU in-flight performance.
- Complete initial design of the missile and fire unit and initiate materiel purchases for prototype test quantities.
- Continue hardware-in-the-loop and closed-loop simulation evaluation and verification of hardware/software designs.
- Continue early soldier evaluations of emerging hardware/software designs.

PRIME CONTRACTORS

Lockheed Martin (Dallas, TX)



* See appendix for list of subcontractors